Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 2, 3, 10, and 12 are amended.

Listing of Claims:

- 1. (Canceled)
- (Currently Amended) A solid-state imaging apparatus, comprising:
- a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and
 - a driving unit for driving the plurality of photosensitive cells.
 - wherein each of the photosensitive cells includes:
- a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;
- a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;
- a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor, the floating diffusion layer including a contact portion that is connected to a gate electrode of an amplifier transistor; and
- [[an]] the amplifier transistor being formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,
- wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer,

the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate in a region other than a periphery of the contact portion of the floating diffusion layer, while a region within the periphery of the contact portion is covered with a salicide layer, and

an impurity concentration of the floating diffusion layer is lower than an impurity concentration of the source/drain diffusion layer of the amplifier transistor.

- 3. (Currently Amended) A solid-state imaging apparatus, comprising:
- a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and
 - a driving unit for driving the plurality of photosensitive cells,
 - wherein each of the photosensitive cells includes:
- a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;
- a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;
- a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor, the floating diffusion layer including a contact portion that is connected to a gate electrode of an amplifier transistor; and
- [[an]] the amplifier transistor being formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,

wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer.

the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate in a region other than a periphery of the contact portion of the floating diffusion layer, while a region within the periphery of the contact portion is covered with a salicide layer,

each of the photosensitive cells further includes a reset transistor for resetting the floating diffusion layer,

the driving unit includes:

- a vertical driver circuit for simultaneously driving the transfer transistor and the reset transistor in a vertical direction;
- a noise suppressing circuit for obtaining a signal output to a plurality of vertical signal lines disposed in a vertical direction in the photosensitive region; and

a horizontal driver circuit for outputting a signal from the noise suppressing circuit in a time series by successively switching a plurality of horizontal transistors disposed in a horizontal direction, and

an impurity concentration of the floating diffusion layer is lower than an impurity concentration of a source/drain diffusion layer provided in a plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit.

- 4. (Original) The solid-state imaging apparatus according to claim 3, wherein the source/drain diffusion layer provided in the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is covered with a salicide layer.
- 5. (Previously Presented) The solid-state imaging apparatus according to claim 2, wherein the transfer transistor and the amplifier transistor are composed of an n-type MOS transistor.
- 6. (Original) The solid-state imaging apparatus according to claim 3, wherein the vertical driver circuit and the horizontal driver circuit are composed of a dynamic logic circuit.
- 7. (Original) The solid-state imaging apparatus according to claim 3, wherein an impurity concentration of a source/drain diffusion layer of a part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is lower than an impurity concentration of a source/drain diffusion layer of another part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit.
- 8. (Original) The solid-state imaging apparatus according to claim 3, wherein a source/drain diffusion layer of a part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is formed to be exposed on a surface of the semiconductor substrate, and a source/drain diffusion layer of another part of the plurality of transistors constituting the vertical driver circuit and the horizontal driver circuit is covered with a salicide layer.
- 9. (Previously Presented) The solid-state imaging apparatus according to claim 2, wherein an impurity concentration of the floating diffusion layer is 1×10^{18} cm⁻³ or less.

- 10. (Withdrawn and Currently Amended) A method for producing a solid-state imaging apparatus comprising:
- a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and
 - a driving unit for driving the plurality of photosensitive cells,
 - wherein each of the photosensitive cells includes:
- a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;
- a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode;
- a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor, the floating diffusion layer including a contact portion that is connected to a gate electrode of an amplifier transistor; and

[[an]] the amplifier transistor being formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,

wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer, and the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate in a region other than a periphery of the contact portion of the floating diffusion layer, while a region within the periphery of the contact portion is covered with a salicide layer.

the method comprising:

forming the photodiode, the transfer transistor, and the amplifier transistor on the semiconductor substrate:

forming a resist in a predetermined pattern so as to cover the photodiode, the transfer transistor, and the amplifier transistor;

implanting ions into the semiconductor substrate using the resist as a mask so as to form the floating diffusion layer;

removing the resist and forming a salicide blocking film so as to cover the floating diffusion layer and the photodiode;

forming a source/drain diffusion layer of the amplifier transistor; and

forming a salicide layer so as to cover the source/drain diffusion layer of the amplifier transistor.

- 11. (Withdrawn) The method for producing the solid-state imaging apparatus according to claim 10, wherein an impurity concentration of the floating diffusion layer is lower than an impurity concentration of the source/drain diffusion layer of the amplifier transistor.
- 12. (Withdrawn and Currently Amended) A method for producing a solid-state imaging apparatus comprising:
- a plurality of photosensitive cells disposed in a matrix in a photosensitive region on a semiconductor substrate; and
 - a driving unit for driving the plurality of photosensitive cells,
 - wherein each of the photosensitive cells includes:
- a photodiode formed to be exposed on a surface of the semiconductor substrate, for accumulating signal charge obtained by subjecting incident light to photoelectric exchange;
- a transfer transistor formed on the semiconductor substrate, for transferring the signal charge accumulated in the photodiode:
- a floating diffusion layer formed on the semiconductor substrate, for temporarily accumulating the signal charge transferred by the transfer transistor, the floating diffusion layer including a contact portion that is connected to a gate electrode of an amplifier transistor; and
- [[an]] the amplifier transistor being formed on the semiconductor substrate, for amplifying the signal charge temporarily accumulated in the floating diffusion layer,

wherein a source/drain diffusion layer provided in the amplifier transistor is covered with a salicide layer, and the floating diffusion layer is formed to be exposed on the surface of the semiconductor substrate in a region other than a periphery of the contact portion of the floating diffusion layer, while a region within the periphery of the contact portion is covered with a salicide layer,

the method comprising:

forming a resist in a predetermined pattern on the semiconductor substrate; implanting ions using the resist as a mask so as to form the photodiode;

removing the resist and forming the transfer transistor and the amplifier transistor on the semiconductor substrate;

forming a first salicide blocking film so as to cover the photodiode;

implanting ions into the semiconductor substrate so as to form the floating diffusion layer and the source/drain diffusion layer of the amplifier transistor;

forming a second salicide blocking film so as to cover the floating diffusion layer; and forming a salicide layer so as to cover the source/drain diffusion layer of the amplifier transistor.

13. (Withdrawn) The method for producing the solid-state imaging apparatus according to claim 12, wherein an impurity concentration of the floating diffusion layer is lower than an impurity concentration of the source/drain diffusion layer of the amplifier transistor.